INTERNATIONAL STANDARD

ISO 7902-3

Second edition
2020-06

Hydrodynamic plain journal bearings under steady-state conditions — Circular cylindrical bearings —

Part 3: Permissible operational parameters

Paliers lisses hydrodynamiques radiaux fonctionnant en régime stabilisé — Paliers circulaires cylindriques —

Partie 3: Paramètres opérationnels admissibles

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This document was prepared by Technical Committee ISO/TC 123, *Plain bearings*, Subcommittee SC 8, *Calculation methods for plain bearings and their applications*.

This second edition cancels and replaces the first edition (ISO 7902-3:1998), of which it constitutes a minor revision. The changes compared to the previous edition are as follows:

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— adjustment to ISO/IEC Directives, Part 2:2018;

— correction of typographical errors.

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Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

In order to attain sufficient operational reliability of circular cylindrical plain journal bearings when calculated in accordance with ISO 7902-1, it is essential that the calculated operational parameters h_{min}, T_B or T_{ex} and $\overline{p}$ do not lie above or below the permissible operational parameters h_{lim}, T_{lim} and $\overline{p}_{lim}$. The permissible parameters represent geometrically and technologically dependent operational limits within the plain bearing tribological system. They are empirical values which still enable sufficient operational reliability even for minor influences (see ISO 7902-1).

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